


**9-38.** Write and solve a system of equations for the situation described below. Define your variables and write your solution as a sentence. [Homework Help](#) 

Daria has all nickels and quarters. The number of nickels is 3 more than twice the number of quarters. If she has \$1.90 in all, how many nickels does Daria have?


**9-39.** Solve the following quadratic equations using any method. [Homework Help](#) 

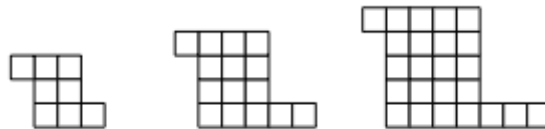
a.  $10000x^2 - 64 = 0$

b.  $9x^2 - 8 = -34x$

c.  $2x^2 - 4x + 7 = 0$

d.  $3.2x + 0.2x^2 - 5 = 0$

**9-40.** Find a rule that represents the number of tiles in Figure  $x$  for the tile pattern below. [Homework Help](#) 



**9-41.** Solve the equations below for  $x$ . Check your solutions. [Homework Help](#) 

a.  $3x^2 + 3x = 6 + 3x^2$

b.  $\frac{5}{x} = \frac{1}{3}$

c.  $5 - (2x - 3) = -3x + 6$

d.  $6(x - 3) + 2x = 4(2x + 1) - 22$

**9-42.** Line  $L$  passes through the points  $(-44, 42)$  and  $(-31, 94)$ , while line  $M$  has the rule  $y = 6 + 3x$ . Which line is steeper? **Justify** your answer. [Homework Help](#) 